

Attorney's Docket No. JJ-124B-R&D



#2/BM  
10-26-00

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re: Dube et al.  
Appl. No.: 09/624,820  
Filed: July 25, 2000  
For: METHOD OF IMPROVING FLAVOR  
IN SMOKING ARTICLE

Group Art Unit: 1731  
Examiner:

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OCT 25 2000

**GROUP 1700**

October 19, 2000

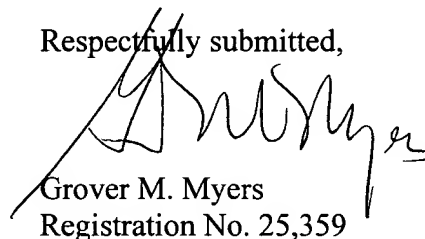
Assistant Commissioner for Patents  
Washington, DC 20231

**INFORMATION DISCLOSURE STATEMENT  
CITATION UNDER 37 C.F.R. § 1.97**

Sir:

Attached is a list of documents on form PTO-1449 together with a copy of each identified document. It is requested that these documents be considered by the Examiner and officially made of record in accordance with the provisions of 37 C.F.R. § 1.97 and Section 609 of the MPEP.

Respectfully submitted,

  
Grover M. Myers  
Registration No. 25,359

R.J. Reynolds Tobacco Company  
P.O. Box 1487  
Winston-Salem, NC 27102

# **INFORMATION DISCLOSURE STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Sheet 1 of 5

Application Number

09/624,820

Filing Date

July 25, 2000

First Named Inventor

Michael Francis Dube

Group Art Unit

1731

Examiner Name

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## **U. S. PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	U.S. Patent Document Number	Kind Code <sup>2</sup> (if known)	Name of Patentee or Applicant Of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Figures, Tables, or Relevant Figures Appear
	1	Re. 32,095		Wu et al.	03-25-86	
	2	3,316,919		Green et al.	05-02-67	
	3	3,424,171		Rooker	01-28-69	
	4	3,478,015		Onishi et al.	11-11-69	
	5	3,722,516		Suwa et al.	03-27-73	
	6	3,760,815		Deszyck	09-25-73	
	7	3,920,026		Warfield et al.	11-18-75	
	8*	3,929,141		Beringer et al.	12-30-75	
	9	3,828,798		Harper et al.	08-13-74	
	10	3,934,594		Beringer et al.	01-27-76	
	11	4,040,431		Ashworth et al.	08-09-77	
	12	4,079,742		Rainer et al.	03-21-78	
	13	4,150,677		Osborne, Jr. et al.	04-24-79	
	14	4,184,495		Rainer et al.	01-22-80	
	15	4,286,606		Swain et al.	09-01-81	
	16	4,306,577		Wu et al.	12-22-81	
	17	4,407,307		Gaisch et al.	10-04-83	
	18	4,421,126		Gellatly	12-20-83	
	19	4,481,956		Chan	11-13-84	
	20	4,506,682		Muller	03-26-85	
	21	4,516,590		Teng	05-14-85	
	22	4,537,204		Gaisch et al.	08-27-85	
	23	4,538,627		Chan et al.	09-03-85	
	24	4,566,468		Sachleben et al.	01-28-86	
Examiner Signature				Date Considered		

\*Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

### **CERTIFICATE OF MAILING**

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to Commissioner of Patents and Trademarks, Washington, D. C. 20531 on October 19, 2000

Parthenia S. Galloway  
Parthenia S. Galloway

<sup>1</sup> Unique citation designation number.

<sup>2</sup> See attached Kinds of U.S. Patent Documents.

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**INFORMATION  
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U. S. PATENT DOCUMENTS

Examiner Initials*	Cite No. <sup>3</sup>	U.S. Patent Document		Name of Patentee or Applicant Of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Where Relevant Passages of Relevant Figures Appear
		Number	Kind Code <sup>4</sup> (if known)			
	25	4,596,259		White et al.	06-24-86	
	26	4,605,016		Soga et al.	08-12-86	
	27	4,607,646		Lilly, Jr. et al.	08-26-86	
	28	4,628,947		Driscoll et al.	12-16-86	
	29	4,638,816		Cox et al.	01-27-87	
	30	4,674,519		Keritsis et al.	06-23-87	
	31	4,677,994		Denier et al.	07-07-87	
	32	4,701,282		Chan et al.	10-20-87	
	33	4,715,388		Rainer	12-29-87	
	34	4,744,375		Denier et al.	05-17-88	
	35	4,760,854		Jewell et al.	08-02-88	
	36	4,827,949		Sunas	05-09-89	
	37	4,941,484		Clapp et al.	07-17-90	
	38	4,986,286		Roberts et al.	01-22-91	
	39	5,016,654		Bernasek et al.	05-21-91	
	40	5,018,540		Grubbs et al.	05-28-91	
	41	5,038,802		White et al.	08-13-91	
	42	5,060,663		Rainer	10-29-91	
	43	5,060,669		White et al.	10-29-91	
	44	5,065,775		Fagg	11-19-91	
	45	5,074,319		White et al.	12-24-91	
	46	5,099,862		White et al.	03-31-92	
	47	5,121,757		White et al.	06-16-92	

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		Number	Kind Code <sup>6</sup> (if known)			
	48	5,131,415		Munoz et al.	07-21-92	
	49	5,159,942		Brinkley et al.	11-03-92	
	50	5,234,008		Fagg	08-10-93	
	51	5,235,992		Sensabaugh, Jr.	08-17-93	
	52	5,284,166		Cartwright et al.	02-08-94	
	53	5,318,050		Gonzalez-Parra et al.	06-07-94	
	54	5,339,838		Young et al.	08-23-94	
	55	5,413,122		Shu et al.	05-09-95	
	56	5,598,868		Jakob et al.	02-04-97	
	57	6,048,404		White	04-11-00	

**FOREIGN PATENT DOCUMENTS**

Examiner Initials	Cite No.	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>10</sup>
		Office <sup>7</sup>	Number <sup>8</sup>	Kind Code (if known) <sup>9</sup>				
	58	DE	1 517 280		General Cigar Co Inc.; Dr.-Ing. H. Negendank	09-11-69		A
	59	GB	572,236					
	60	GB	1,383,029		H.F.&Ph.F. Reemtsma			
	61	GB	2 239 654	A	Brown & Williamson Tobacco Corp.			
	62	FR	2 767 649	A1	Saint Val Anita et Raimondo Gerard	03-05-99		A
	63	JP	57-71388		Sanei Chemical Industries, Ltd.	05-04-82		T
	64	JP	61-15675	A2	Takaya et al.	01-23-86		A

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<sup>5</sup> Unique citation designation number.

<sup>6</sup> See attached Kinds of U.S. Patent Documents.

<sup>7</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3).

<sup>8</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document.

<sup>9</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible.

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Attorney Docket Number	JJ-124B

Sheet 4 of 5

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Examiner Initials	Cite No.	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>14</sup>
		Office <sup>11</sup> 13	Number <sup>12</sup>	Kind Code (if known)				
.	65	EP	0 110 693	A1	Philip Morris Inc.	06-13-84		
.	66	EP	0 517 407	A2	R. J. Reynolds Tobacco Co.	12-09-92		
.	67	EP	0 821 886	A2	R. J. Reynolds Tobacco Co.	02-04-98		
.	68	PCT	WO 97/04673	A1	Brown & Williamson Tobacco Corp.	02-13-97		

**NON PATENT LITERATURE DOCUMENTS**

Examiner Initials	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T
.	69	<i>Factors Affecting the Formation of Pyrazine Compounds in Sugar-Amine Reactions</i> , P. E. Koehler et al., J. Agr. Food Chem., Vol. 18, No. 5, 1970, pp. 895-898	
.	70	<i>Formation of Pyrazine Compounds in Sugar-Amino Acid Model Systems</i> , P. E. Koehler et al., J. Agr. Food Chem., Vol. 17, No. 2, Mar.-Apr. 1969, pp. 393-396	
.	71	<i>Mutarotation, Hydrolysis, and Rearrangement Reactions of Glycosylamines</i> , H. S. Isbell et al., The Journal of Organic Chemistry, Vol. 23, No. 8, 1958, pp. 1309-1319	
.	72	<i>Parameter Effects on the Thermal Reaction of Cystine and 2,5-Dimethyl-4-hydroxy-3(2H)-Furanone</i> , C. Shu et al., Chap. 21, Thermal Generation of Aromas, 1989 American Chemical Society, pp. 229-241	
.	73	<i>Pyrazine Formation From Serine and Threonine</i> , C. Shu, J. Agric. Food Chem., Vol. 4A, No. 10, 1999, pp. 4332-4335	
.	74	<i>Studies on the Aroma of Roasted Coffee</i> , W. Grosch et al., Thermally Generated Flavour, Flavour Science: Recent Developments, pp. 200-205	
.	75	<i>The Design of Cigarettes</i> , C. L. Browne, 1979, pp. 17-24, 56	
.	76	<i>The Reaction of Glucose with Some Amines</i> , E. Mitts et al., Journal of the American Chemical Society, Vol. 66, No. 2, 1944, pp. 483-487	
.	77	<i>The Variety of Odors Produced in Maillard Model Systems and How They Are Influenced by Reaction Conditions</i> , M. J. Lane et al., Maillard Reactions, 1983 American Chemical Society, pp. 141-158	

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<sup>10</sup> Applicant is to place a check mark here if English language Translation is attached.

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Sheet 5 of 5

**GROUP 1700**

**NON PATENT LITERATURE DOCUMENTS**

Examiner Initials	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium/ catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T
	78	<i>Caramel, Properties and Analysis</i> , Encyclopaedia of Food Science Food Technology and Nutrition, pp. 655-664	
	79	<i>Analysis of Aromatic Caramel</i> , I. Pons et al., Food Chemistry 39 (1991) pp. 311-320	
	80	<i>Formation of Furaneol in Heat-Processed Foods</i> , P. Schieberle, Flavor Precursors Thermal and Enzymatic Conversions, 1992 American Chemical Society, Chapter 12, pp. 164-174	
	81	<i>GC and Sensory Techniques Coupled in Caramel Flavor Analysis</i> , I. Pons, Perfumer & Flavorist, Vol. 20, March/April 1995, pp. 15-18	

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